A831 SBC

3.5” Fanless SBC w/AMD Geode LX 800, VGA, LCD, Ethernet and CF Socket and Mini-PCI Interface.

USER MANUAL Version 1.3

IMPORTANT NOTICE : The Euro CLS A831 motherboard can be used for a large range of panel PC's from 8.4" to 42".
In order to know the complete range of products we propose, please clic this link :

http://www.eurocls.com/product/Panel_PC/AMD_Geode_LX_Dual_LAN/

FCC Statement

This device complies with part 15 FCC rules. Operation is subject to the following two conditions：

- This device may not cause harmful interference.
- This device must accept any interference received including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a class "a" digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at him own expense.

Copyright Notice

ALL RIGHTS RESERVED. No part of this document may be reproduced, copied, translated, or transmitted in any form or by any means, electronic or mechanical, for any purpose, without the prior written permission of the original manufacturer.

Trademark Acknowledgement

Brand and product names are trademarks or registered trademarks of their respective owners.

Disclaimer

We reserve the right to make changes, without notice, to any product, including circuits and/or software described or contained in this manual in order to improve design and/or performance. We assume no responsibility or liability for the use of the described product(s), conveys no license or title under any patent, copyright, or masks work rights to these products, and makes no representations or warranties that these products are free from patent, copyright, or mask work right infringement, unless otherwise specified. Applications that are described in this manual are for illustration purposes only. We make no representation or warranty that such application will be suitable for the specified use without further testing or modification.

Warranty

We warrant that each of its products will be free from material and workmanship defects for a period of one year from the invoice date. If the customer discovers a defect, We will, at its option, repair or replace the defective product at no charge to the customer, provided it is returned during the warranty period of one year, with transportation charges prepaid. The returned product must be properly packaged in its original packaging to obtain warranty service.

If the serial number and the product shipping data differ by over 30 days, the in-warranty service will be made according to the shipping date. In the serial numbers the third and fourth two digits give the year of manufacture, and the fifth digit means the month (e. g., with A for October, B for November and C for December).

For example, the serial number 1W07Axxxxxxxx means October of year 2007.

Packing List

Before using this Motherboard, please make sure that all the items listed below are present in your package：

- A831 Motherboard
- A831 SBC User Manual
- User's Manual & Driver CD
- HDD IDE Cable
- HDD SATA Cable
- RS232 Cable
- USB Cable
- Y Cable For Keyboard/Mouse

If any of these items are missing or damaged, contact your distributor or sales representative immediately.

Customer Service

We provide service guide for any problem as follow steps：First, visit the website at to find the update information about the product. Second, contact with your distributor, sales representative, or our customer service center for technical support if you need additional assistance. You may have the following information ready before you call：

- Product serial number
- Peripheral attachments
- Software (OS, version, application software, etc.)
- Description of complete problem
- The exact wording of any error messages

In addition, free technical support is available from our engineers every business day. We are always ready to give advice on application requirements or specific information on the installation and operation of any of our products. Please do not hesitate to call or e-mail us.

Safety Precautions

- **Warning!**

Always completely disconnect the power cord from your chassis whenever you work with the hardware. Do not make connections while the power is on. Sensitive electronic components can be damaged by sudden power surges. Only experienced electronics personnel should open the PC chassis.

- **Caution!**

Always ground yourself to remove any static charge before touching the CPU card. Modern electronic devices are very sensitive to static electric charges. As a safety precaution, use a grounding wrist strap at all times. Place all electronic components in a static-dissipative surface or static-shielded bag when they are not in the chassis.

Safety and Warranty

1. Please read these safety instructions carefully.
2. Please keep this user's manual for later reference.
3. Please disconnect this equipment from any AC outlet before cleaning. Do not use liquid or spray detergents for cleaning. Use a damp cloth.
4. For pluggable equipment, the power outlet must be installed near the equipment and must be easily accessible.
5. Keep this equipment away from humidity.
6. Put this equipment on a reliable surface during installation. Dropping it or letting it fall could cause damage.
7. The openings on the enclosure are for air convection. Protect the equipment from overheating. DO NOT COVER THE OPENINGS.
8. Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.
9. Position the power cord so that people cannot step on it. Do not place anything over the power cord.
10. All cautions and warnings on the equipment should be noted.
11. If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient over-voltage.
12. Never pour any liquid into an opening. This could cause fire or electrical shock.
13. Never open the equipment. For safety reasons, only qualified service personnel should open the equipment.
14. If any of the following situations arises, get the equipment checked by service personnel:
    A. The power cord or plug is damaged.
    B. Liquid has penetrated into the equipment.
    C. The equipment has been exposed to moisture.
    D. The equipment does not work well, or you cannot get it to work according to the user’s manual.
    E. The equipment has been dropped and damaged.
    F. The equipment has obvious signs of breakage.
15. Do not leave this equipment in an uncontrolled environment where the storage temperature is below -20° C (-4°F) or above 60° C (140° F). It may damage the equipment.

Revision History

Version	Date	Note	Author
1.0	2007.05.23	✓ First Version	Warren Li
1.1	2007.06.08	✓ Modify Pin Assignment	Warren Li
1.2	2007.09.13	✓ CF Card Setting	Aladin Huang
1.3	2007.09.27	✓ Double Check	Aladin Huang
	2007.11.07	✓ Pls note that our A831 the COM4: RS232 to RS422/RS485 are using different socket and different cable	Aladin Huang
	2007.11.14	✓ Add Notice	Aladin Huang

Contents

CHAPTER 1 GENERAL INFORMATION....1

1.1 INTRODUCTION....2
1.2 FEATURE....2
1.3 MOTHERBOARD SPECIFICATIONS....3
1.4 FUNCTION BLOCK....4
1.5 BOARD DIMENSIONS....5

CHAPTER 2 INSTALLATIONS....7

2.1 MEMORY MODULE（SODIMM）INSTALLATION....77
2.2 I/O EQUIPMENT INSTALLATION....8
2.3 JUMPERS AND CONNECTORS....9
2.4 JUMPER SETTING....11
2.5 CONNECTORS AND PIN ASSIGNMENT....13

CHAPTER 3 AWARD BIOS SETUP....23

3.1 STARTING SETUP....23
3.2 AWARD BIOS SETUP....24
3.3 STANDARD CMOS FEATURES....26
3.4 ADVANCED BIOS FEATURES....29
3.5 ADVANCED CHIPSET FEATURES....32
3.6 INTEGRATED PERIPHERALS....34
3.7 POWER MANAGEMENT SETUP....35
3.8 PNP/PCI CONFIGURATION SETUP....36
3.9 PC HEALTH STATUS....37
3.10 LOAD FAIL-SAFE DEFAULTS....38
3.11 LOAD OPTIMIZED DEFAULTS....38
3.12 SUPERVISOR / USER PASSWORD SETTING....39
3.13 SAVE & EXIT SETUP....40
3.14 EXIT WITHOUT SAVING....41

CHAPTER 4 SATA DRIVER INSTALLATION....43

4.1 GET THE RIGHT DRIVERS....43
4.2 INSTALLING SATA DRIVERS....43

CHAPTER 5 CHIPSET DRIVER INSTALLATION....45

5.1 STANDARD CMOS FEATURES....45
5.2 FURTHER INFORMATION....47

CHAPTER 6 ETHERNET DRIVER INSTALLATION 49

6.1 INTRODUCTION 49

6.2 INSTALLATION OF ETHERNET DRIVER 50

6.3 FURTHER INFORMATION 51

CHAPTER 7 VGA DRIVER INSTALLATION 53

7.1 INTRODUCTION 53

7.2 INSTALLATION OF VGA DRIVER 53

7.3 FURTHER INFORMATION 55

CHAPTER 8 AUDIO DRIVER INSTALLATION 57

8.1 INTRODUCTION 57

8.2 INSTALLATION OF AUDIO DRIVER 58

8.3 FURTHER INFORMATION 60

CHAPTER 1

General Information

This chapter includes the A831 Motherboard background information.
Sections include:

- Introduction
- Feature
- Motherboard Specification
- Function Block
- Board Dimensions

Chapter 1 General Information

1.1 Introduction

The A831 SBC is a high performance, fanless, low power consumption motherboard with AMD CS 5536 chipset combine with a TFT LCD interface. The AMD LX 800 fanless, high performance CPU delivers the most performance per watt available in the market. A831 is designed to satisfy most of the applications in the industrial market, such as POS, KIOSK, Industrial Automation, Programmable Control System, and HMI. It's an embedded system with DDR SO-DIMM SDRAM, VGA/LCD controller, multiple-COM port interface, and on-board Ethernet. The motherboard supports one Mini-PCI for function upgrade and one CF socket for data saving. It is a compact design to meet the demanding performance requirements of today's business and industrial applications.

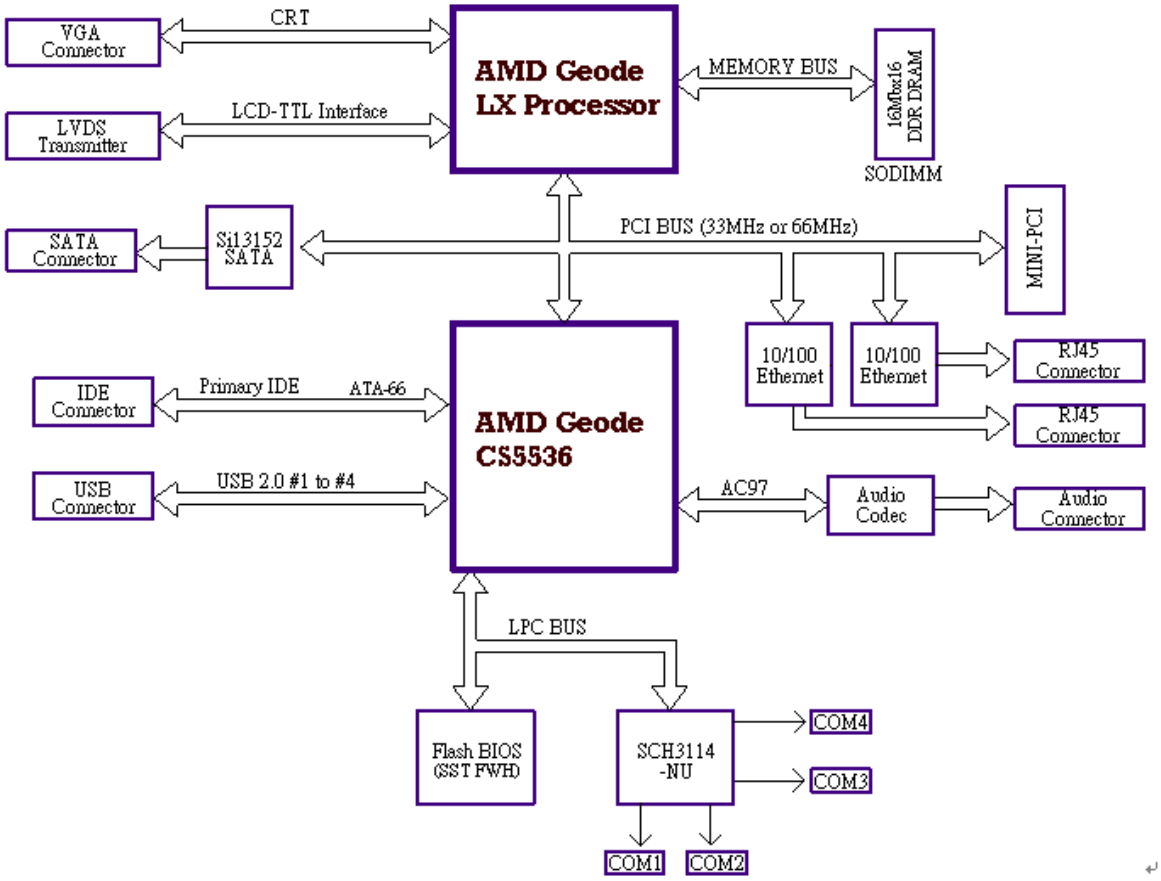
1.2 Feature

- 3.5-inch Form Factor (146mm x 101mm)
- AMD LX800 500MHz CPU, Fanless Design
- Highest Performance Per Watt (CPU core power)
- AMD CS5536 Chipset
- Integrated TFT LCD Interface/ VGA Function
- 1 x DDR SODIMM, max. 1 GB
- Dual Realtek RTL8100c 10/100 Mbps
- Optional Dual Realtek RTL8110SC Gigabit Ethernet
- 2 x SATA1.0, 1 x Mini PCI, 1 x Type I/II CF socket, 4 x COM, 4 x USB 2.0, 2 x RJ-45,

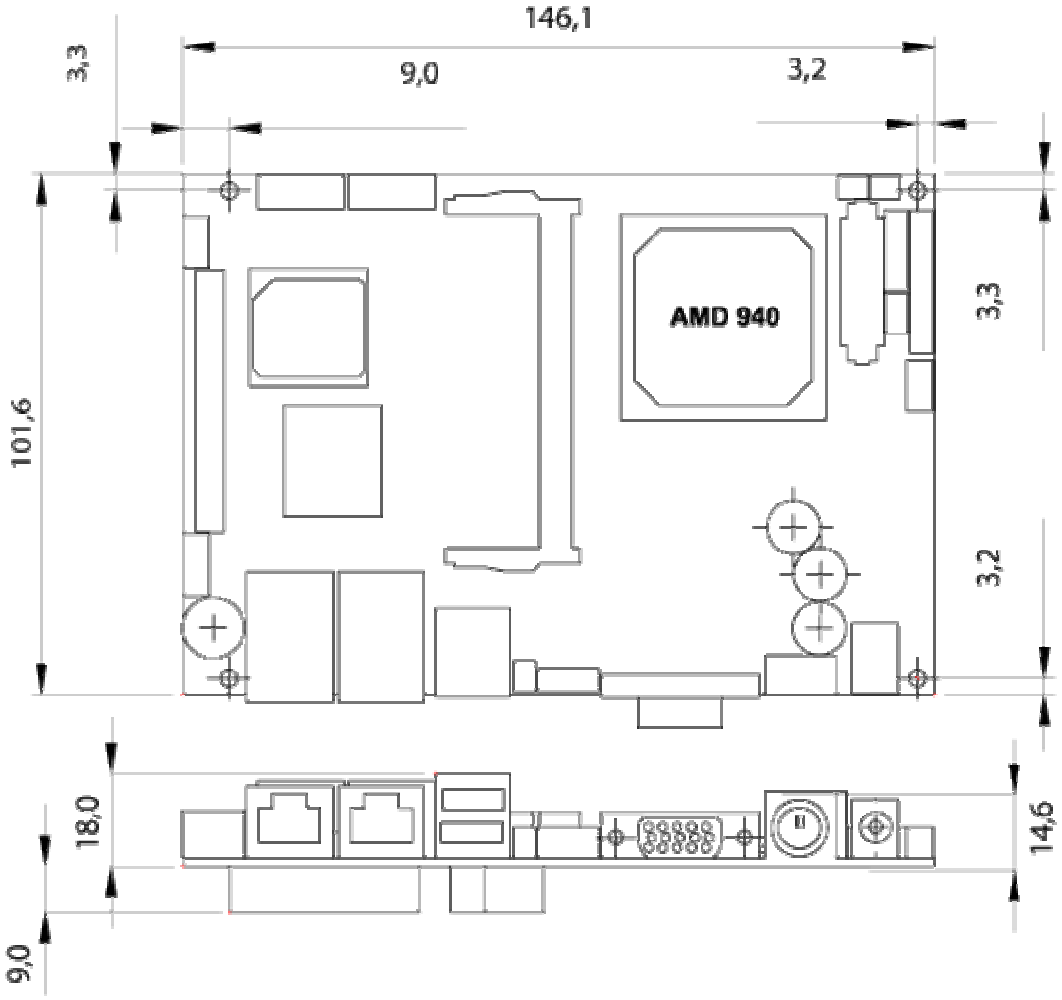
1.3 Motherboard Specifications

- CPU: AMD Embedded LX-800 Micro-processor,
  - Ultra-low power about 3.9 Watts
- Chips set: AMD CS5536 Companion Device
- BIOS : AWARD 4Mbit Flash
- System memory: One 200-pin SODIMM socket accepts up to 1GB SDRAM
- Enhanced IDE interface : Supports up one channel two IDE devices
  - BIOS auto-detected for UDMA100 mode(ATA-5)
  - One 44pins hard disk interface
- Serial Ports:
  - Four serial RS-232 pin headers, one serial RS-422/485 pin header and one for RS-232/422/485 jumper.
- Keyboard/mouse connector: Mini-DIN connector supports PS/2 interface
- USB interface : Two USB ports onboard, two USB pin header
- Serial ATA Ports: Build-in SATA connector, supports 2 SATA1.0 ports
- Video interface:
  - Chipset : LX-800 including
  - Display type: Support CRT and TFT LCD displays
  - CRT and flat panel can display simultaneously
  - Panel resolution support up to 1280 x 1024 @18bpp or 24bpp
- Audio function:
  - Chipset: Realtek ALC203 AC97 compliant interface
  - Audio interface: Microphone in, Line in, Earphone out
- Ethernet interface
  - Chipset: Realtek RTL8110SC+RTL8110C(Optional)
  - Ethernet interface : PCI 10/100 Mbps Ethernet protocol compatible
  - Connection: On-board RJ-45 connector
- Mechanical and environmental (SBC board level)
  - Dimensions (L x W) : 145 mm x 102 mm(5.9” x 4.2”)
  - Power supply voltage: +8 ~ +19Volts DC-input
  - Power consumption (typical): +19V/5A@7Watts
  - Operating temperature: 0 deg. C to 55 deg. C
- Operating Humidity: 30% ~ 90% Relative humidity, non-condensing

1.4 Function Block



1.5 Board dimensions



CHAPTER 2

Installations

This chapter provides information on how to use the jumps and connectors on the A831 Motherboard. The Sections include:

- Memory Module Installation
- I / O Equipment Installation
- Setting the Jumpers
- Connectors on A831 Motherboard

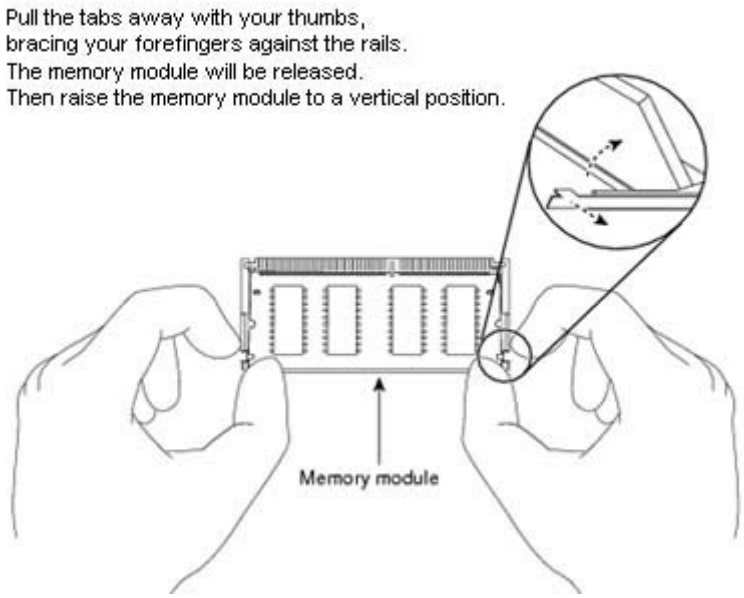
Chapter 2 Installations

2.1 Memory Module（SODIMM）Installation

The A831 SBC provides one 200-pin SODIMM slot. The socket supports up to 1GB DDR 400 SDRAM. When installing the Memory device, please follow the steps below：

Step.1. Firmly insert the SODIMM at an angle into its slot. Align the SODIMM on the slot such that the notch on the SODIMM matches the break on the slot.

Step.2. Press downwards on SODIMM until the retaining clips at both ends fully snap back in place and the SODIMM is properly seated.


Pull the tabs away with your thumbs,
bracing your forefingers against the rails.
The memory module will be released.
Then raise the memory module to a vertical position.
Memory module

- Caution!

The SODIMM only fits in one correct orientation. It will cause permanent damage to the development board and the SODIMM if the SODIMM is forced into the slot at the incorrect orientation.

2.2 I/O Equipment Installation

2.2.1 PS/2 Keyboard and PS/2 Mouse

The A831 SBC provides a Mini-DIN connector supports PS/2 interface. Mini-DIN connector supports Keyboard and Mouse through Y cable. Please plug keyboard or mouse directly with Y cable. In other cases, especially in embedded applications, a mouse is not used. Therefore, the BIOS standard setup menu allows you to select* "All, But Keyboard" under the "Halt On". This allows no-keyboard operation in embedded system applications without the system halting under POST.

2.2.2 Audio function

The AC'97 capabilities are provided by a Realtek ALC203 chip supporting digital audio outputs. The onboard ALC203 is a 20-bit DAC and 18-bit ADC supporting full-duplex AC'97 2.3 compatible stereo audio CODEC for multimedia, including host/soft audio based designs. The audio interface includes two jacks: microphone-in and line-out.

2.2.3 Serial COM ports

One RS-232 ports with 16C550 UART (or compatible) with 16-byte FIFO buffer. Three optional COM ports support RS-232. When an optional touch-screen is ordered with PPC, serial com port can connect to a serial or an optional touch-screen. One optional COM port supports RS232/422/485 choice through jumper setting.

2.2.4 Ethernet interface

The Motherboard is equipped with dual Realtek RTL8100C or optional dual Realtek RTL8110SC Gigabit Ethernet chipset which is fully compliant with the PCI 10/100 Mbps Ethernet protocol compatible. It is supported by major network operating systems. The Ethernet port provides a standard RJ-45 jack.

2.2.5 USB ports

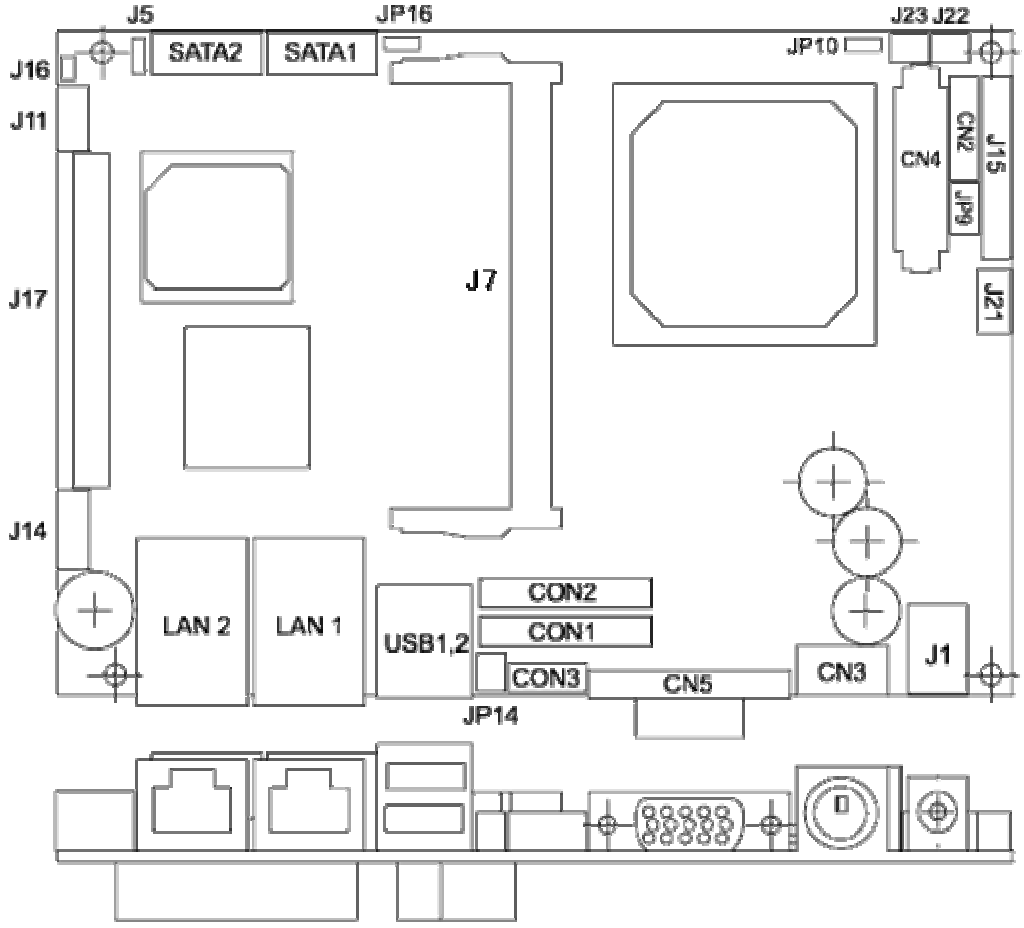
Four USB (Two is optional) device may be connected to the system though an adapter cable. Various adapters may come with USB ports. USB usually connect the external system to the system. The USB ports support hot plug-in connection. Whatever, you should install the device driver before you use the device.

2.2.6 External VGA

The Motherboard has one VGA port that can be connected to an external CRT/ LCD monitor. Use VGA cable to connect to an external CRT / LCD monitor, and connect the power cable to the outlet. VGA connector is a standard 15-pin D-SUB connector.

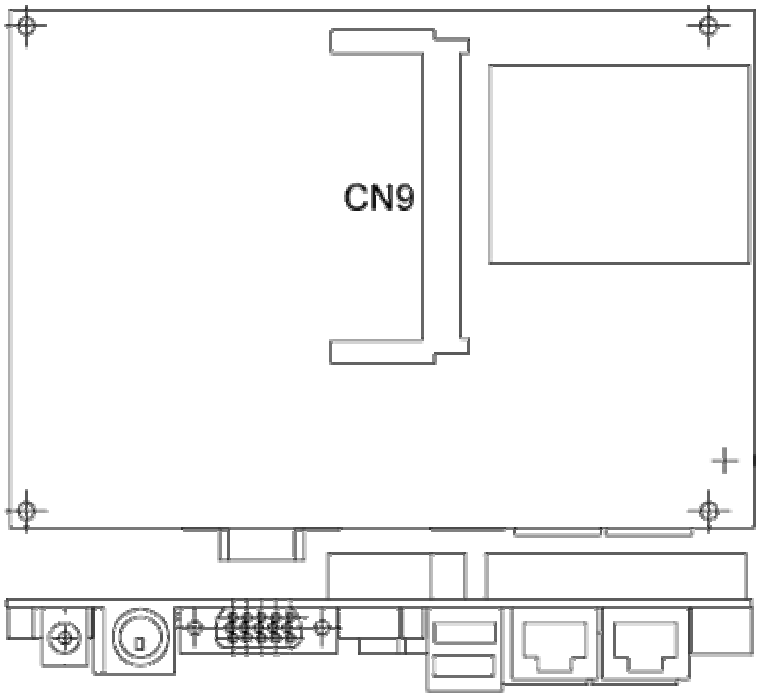
2.3 Jumpers and Connectors

TOP



Locating Jumpers and Connectors (front side)

Bottom



Locating Jumpers and Connectors (rear side)

2.4 Jumper Setting

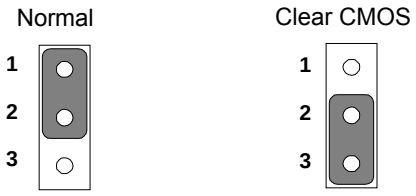
A pair of needle-nose pliers may be helpful when working with jumpers. If you have any doubts about the best hardware configuration for your application, contact your local distributor or sales representative before you make any changes. Generally, you simply need a standard cable to make most connections.

The following tables list the function of each of the board's jumpers.

Label	Function	Note
J5	Clear CMOS	3x1 header, pitch 2.0mm
JP10	LCD Panel Voltage Select	3x1 header, pitch 2.0mm
JP14	RS232/422/485 Selector	2x3 header ,pitch 2.0mm
JP15	IDE/CF Voltage Selector	3x1 header, pitch 2.0mm

2.4.1 J5: Clear CMOS

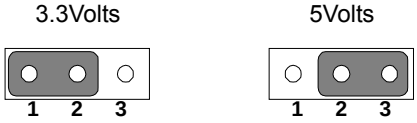
User must make sure the power supply to turn off the power supply before setting Clear CMOS. Users remember to setting jumper back to Normal before turning on the power supply.



Functions	Pin#
Normal	1 Short 2
Clear CMOS	2 Short 3

2.4.2 JP10: LCD Panel Voltage Select

JP10 can be configured to operate in 3.3Volts / 5Volts mode.

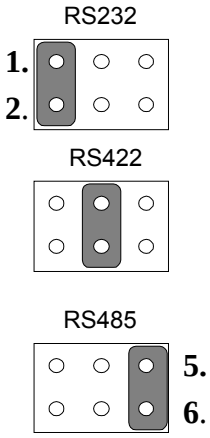


Pin#	Functions
1 Short 2	3.3Volts Selected
2 Short 3	5Volts Selected

2.4.3 JP14: RS232 / RS422 / RS485 Selector

The jumper can be configured to operate in RS-232/422/485 mode.

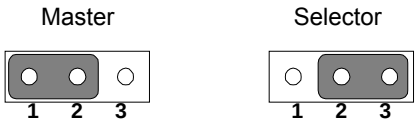
- **JP14**



Pin#	Function
1-2	RS 232
3-4	RS 422
5-6	RS 485

2.4.4 JP16: CF Card Master/Slave Selector

JP16 can be configured to operate in Master / Slave mode.



Pin#	Functions
1 Short 2	Master Selected
2 Short 3	Slave Selected

2.5 Connectors and Pin Assignment

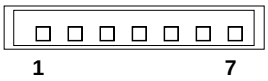
The table below lists the function of each of the board's connectors.

Label	Function	Note
CN2	Inverter connector	JST-B7B-PH-KL
CN3	K/B Mouse connector	6-pin Mini Din
CN4	TFT LCD Output Connector	DF13-40DP-1.25V
CN5	VGA connector	D-sub 15-pin ,female
CN9	Mini-PCI	124pin Mini-PCI connector
JP9	External VR	JST-B3B-PH-KL
CON1,2	COM1 ~ COM4	20x2 header, pitch 2.0mm
CON3	COM4 RS422/485	5x1 header, pitch 2.0mm
Lan1,2	Ethernet connector	RJ-45 LAN connector
J1	DC Input connector	2.5Φ DC Jack
J7	SODIMM connector	SODIMM connector
USB1	USB connector 1& 2	Dual USB Connector
J11	Extend USB connector	DF11-8DP-2DSA
J14	Audio output connector	DF11-10DP-2DSA
J15	System Function Connector 1	JST-B10B-PH-KL
J16	RTC BAT. connector	DF-13-2P-1.25H
J17	Primary IDE connector	22x2 header ,pitch 2.0mm
J21	5V/12V output connector	DF11-8DP-2DSA
J22	12V output connector	JST-B2B-PH-KL
J23	5V output connector	JST-B2B-PH-KL

* Not Default Connector

2.5.1 CN2: Inverter Connector

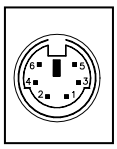
JST-B7B-PH-KL



Pin No.	SYMBOL
1	+12 Volts
2	+12 Volts
3	+12 Volts
4	Ground
5	Brightness Control
6	Ground
7	On/Off

2.5.2 CN3: K/B Mouse Connector

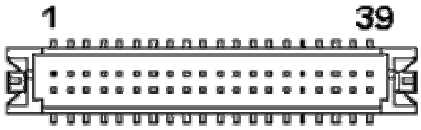
6-pin Mini Din



Signal Name	Keyboard	Mouse	Signal Name
Keyboard data	1	1	Mouse data
N.C.	2	2	N.C.
GND	3	3	GND
5V	4	4	5V
Keyboard clock	5	5	Mouse clock
N.C.	6	6	N.C.

2.5.3 CN4: TFT LCD Output Connector

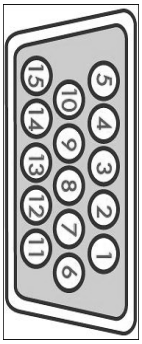
Hirose_DF13-40DP-1.25V



Pin No.	SYMBOL	Pin No	SYMBOL
1	GND	2	GND
3	R1	4	R0
5	R3	6	R2
7	R5	8	R4
9	R7	10	R6
11	GND	12	GND
13	G1	14	G0
15	G3	16	G2
17	G5	18	G4
19	G7	20	G6
21	GND	22	GND
23	B1	24	B0
25	B3	26	B2
27	B5	28	B4
29	B7	30	B6
31	GND	32	GND
33	Panel Power	34	V-Sync
35	Panel Power	36	H-Sync
37	Panel Power	38	PDE
39	GND	40	PCLK

2.5.4 CN5: VGA Connector

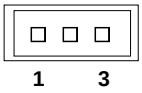
D-sub 15-pin, female



Pin No.	SYMBOL	Pin No.	SYMBOL
1	RED	9	LVGA5V
2	GREEN	10	GND
3	BLUE	11	NA
4	NA	12	DAC_SDAT
5	GND	13	HSYNC#
6	GND	14	VSYNC#
7	GND	15	DAC_SCL
8	GND		

2.5.5 JP9: External VR

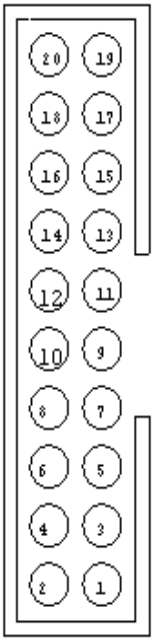
JST-B3B-PH-KL



Pin No.	SYMBOL
1	5 Volts
2	VR Out
3	GND

2.5.6 CON1, 2: COM1~COM4

20x2 header, pitch 2.0mm

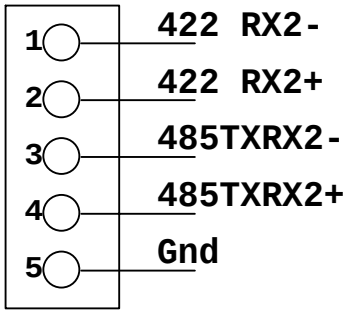


Pin No.	SYMBOL	Pin No.	SYMBOL
20	GND	19	GND
18	FK NRI2	17	FK NDTR2
16	FK NCTS2	15	FK NSOUT2
14	FK NRTS2	13	FK NSIN2
12	FK NDSR2	11	FK NDCD2
10	GND	9	GND
8	FK NRI1	7	FK NDTR1
6	FK NCTS1	5	FK NSOUT1
4	FK NRTS1	3	FK NSIN1
2	FK NDSR1	1	FK NDCD1

2.5.7 CON3: COM4 Select for RS422, RS485

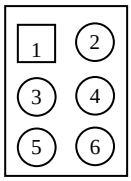
5x1 header, pitch 2.0mm

Connector must goes to CON3 when selecting RS422/485, ensure JP14 is in the right setting.



RSS422/485 Header

JUMPER	RS232	RS422	RS485
RXD (JP14)	1-2	3-4	5-6

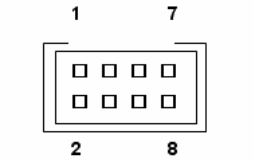


JP14

Pls note that our A831 the COM4: RS232 to RS422/RS485 are using different socket and different cable

2.5.8 J11: Extend USB Port Connector

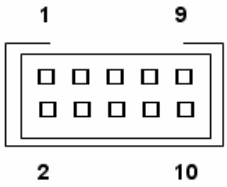
DF11-8DP-2DSA



Pin No.	SYMBOL
1	USB # 3 +5V
2	USB # 4 +5V
3	Data 3 -
4	Data 4 -
5	Data 3 +
6	Data 4 +
7	USB # 3 Ground
8	USB # 4 Ground

2.5.9 J14: Audio Connector

DF11-10DP-2DSA



Pin No.	SYMBOL
1	Line Out R
2	Line Out L
3	Ground
4	Ground
5	Line_in R input
6	Line_in L input
7	Mic. Input
8	Mic. Vref
9	N.C.
10	N.C.

2.5.10 J15: System Function Connector

JST-B13B-PH-KL

Pin No.	SYMBOL
1	PWR Button
2	Ground
3	Reset Button
4	HD Led
5	5V
6	HD LED#
7	PWR LED
8	5V
9	Ground
10*	Volume Control +
11*	Volume Control -
12*	Brightness Control +
13*	Brightness Control -

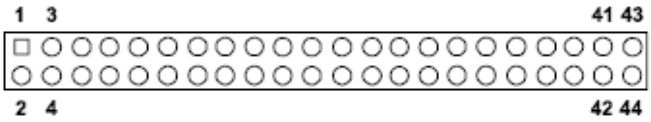
*Not Default Setting

2.5.11 J16: RTC BAT. Connector

DF-13-2P-1.25H

Pin No.	SYMBOL
1	Ground
2	Battery +3.0V

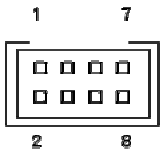
2.5.12 J17: IDE Connector



Pin No.	SYMBOL	Pin No	SYMBOL
1	RST	2	GND
3	D7	4	D8
5	D6	6	D9
7	D5	8	D10
9	D4	10	D11
11	D3	12	D12
13	D2	14	D13
15	D1	16	D14
17	D0	18	D15
19	GND	20	N.C.
21	DREQ	22	GND
23	IOW#	24	GND
25	IOR#	26	GND
27	IORDY#	28	CSEL#
29	DACK#	30	GND
31	IRO14	32	N.C.
33	A1	34	D66DET#
35	A0	36	A2
37	CS#1	38	CS#3
39	ASP#	40	GND
41	+5V	42	+5V
43	GND	44	N.C.

2.5.13 J21: 5V/12V Output Connector

DF11-8DP-2DSA



Pin No.	SYMBOL
1	12V
2	12V
3	GND
4	GND
5	GND
6	GND
7	5V
8	5V

2.5.14 J22: 12V Output Connector

JST-B2B-PH-KL

Pin No.	SYMBOL
1	12V
2	GND

2.5.15 J23: 5V Output Connector

JST-B2B-PH-KL

Pin No.	SYMBOL
1	5V
2	GND

CHAPTER 3

Award BIOS Setup

This chapter describes how to set BIOS configuration

Chapter 3 Award BIOS SETUP

3.1 Starting Setup

AwardBIOS™ has a built-in setup program that allows users to modify the basic system configuration. The information is stored in battery-backed Flash so that it retains the setup information even if the system power is turned off.

Note:

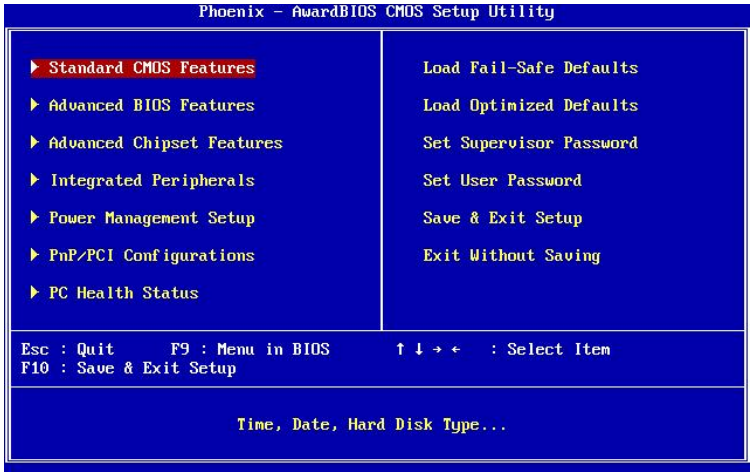
Values for the various setup items that appear on your own screen (including default values) may not be the same as the values shown on the screen figures in this chapter. This is because the BIOS is revised and updated from time to time. If in doubt, check Winmate website for the latest BIOS versions and related information.

The system BIOS is managing and executing a variety of hardware related functions in the system, including:

- System date and time
- Hardware execution sequence
- Power management function
- Allocation of system resources

3.2 Award BIOS Setup

Once you enter the Award BIOS™ CMOS Setup Utility, the Main Menu will appear on the screen. The Main Menu allows you to select from several setup functions and two exit choices. User the arrow keys to select among the items and press <Enter> to accept and enter the sub-menu.


Phoenix - AwardBIOS CMOS Setup Utility
Standard CMOS Features
Advanced BIOS Features
Advanced Chipset Features
Integrated Peripherals
Power Management Setup
PnP/PCI Configurations
PC Health Status
Load Fail-Safe Defaults
Load Optimized Defaults
Set Supervisor Password
Set User Password
Save & Exit Setup
Exit Without Saving
Esc : Quit F9 : Menu in BIOS ↑ ↓ → ← : Select Item
F10 : Save & Exit Setup
Time, Date, Hard Disk Type...

The BISO Setup Main Menu screen is shown above.

Note that a brief description of each highlighted selection appears at the bottom of the screen.

- **Setup Items**

  The main menu includes the following main setup categories.

- **Standard CMOS Features**

  This menu displays the basic information about your system.

- **Advanced BIOS Features**

  Use this menu to set the advanced features available on your system.

- **Advanced Chipset Features**

  Use this menu to change the values in the chipset registers and optimize your system's performance.

- **Integrated Peripherals**

  Use this menu to specify your setting for integrated peripherals.

- **Power Management Setup**

  Use this menu to specify your setting for power management.

- **PnP/PCI Configurations**
  This option configures how PnP (Plug and Play) and PCI expansion cards operate in your system.

- **PC Health Status**
  This entry shows the current system temperature and voltage.

- **Load Fail-Safe Defaults**
  Use this menu to install fail-safe defaults for all appropriate items in the setup utility.

- **Load Optimized Defaults**
  Use this menu to install optimized defaults for all appropriate items in the setup utility.

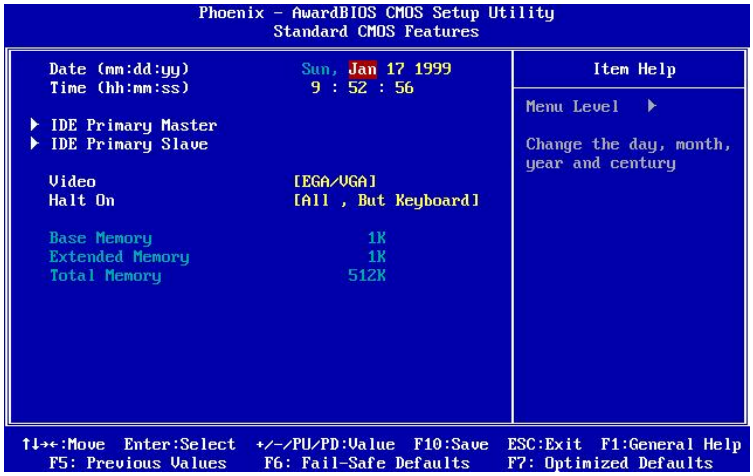
- **Set Supervisor/User Password**
  Use this menu to change, set, or disable supervisor/user password. It allows you to limit access to the system and Setup, or only to Setup.

- **Save & Exit Setup**
  Save the changes that you have made in the Setup Utility and exit the Setup Utility.

- **Exit Without Saving**
  Abandon all changes that you have made in the Setup Utility and exit the Setup Utility.

3.3 Standard CMOS Features

The Standard CMOS Features Setup allows users to configure system components such as date, time, hard disk drive, floppy drive and display. Use the arrow keys to highlight the item and then use the <Page Up> or <Page Down> keys to select the value you want in each item.


Phoenix – AwardBIOS CMOS Setup Utility
Standard CMOS Features
Date (mm:dd:yy) Sun, Jan 17 1999
Time (hh:mm:ss) 9 : 52 : 56
IDE Primary Master
IDE Primary Slave
Video [EGA/VGA]
Halt On [All , But Keyboard]
Base Memory 1K
Extended Memory 1K
Total Memory 512K
Item Help
Menu Level ▶
Change the day, month, year and century
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5: Previous Values F6: Fail-Safe Defaults F7: Optimized Defaults

The standard CMOS Features screen is shown above. Follow each item:

- **Date (mm : dd : yy)**

  Set the system date. Note that if you are running a Windows OS, this item are automatically updated whenever you make changes to the Windows Date.

- **Time (hh : mm : ss)**

  Set the system time. The time is converted based on the 24-hour military-time clock. For example, 5:00:00 p.m. is 17:00:00.

- **IDE Primary Mater/Salve**

  Press <Enter> to enter the sub-menu to detailed options.

- **Video**

  This item defines the video mode of the system. Leave this item at the default value.

  The choice: ”EGA/VGA*”, ”CGA 40”, ”CGA 80”, or ”MONO”.

  * default value

- **Halt On**

This item defines the operation of the system POST (Power-On Self Test) routine. You can use this item to select which situation you want the BIOS to stop the POST process and notify you.

The choice: “All errors”, “No Errors” or, “All, but keyboard”.

- **Base Memory/Extended Memory/Total Memory**

  These items are automatically detected by the system at start up time. These are display-only fields. You can not make change to these fields.

Follow steps as IDE adapter below:

- **IDE Adapters**

  The IDE adapters control the hard disk drive. Use a separate sub-menu to configure each hard disk drive.

  IDE HDD Auto-Detection

  Press <Enter> to auto-detect HDD on this channel. If detection is successful, it fills the remaining fields on this menu.

- **IDE Primary Master/Slave**

  Selecting ‘Manual’ lets you set the remaining fields on this screen and select the type of fixed disk.

  The choice: None, Auto, or Manual

  Choose the access mode for this hard disk.

  - The choice: ”CHS”, ”LBA”, ”Large”, or ”Auto”.

  Capacity

  Note that the disk drive capacity (approx.) is usually slightly greater than the size of a formatted disk given by a disk checking program.

  Cylinder

  Set the number of cylinders for this hard disk.

  - Min = 0, Max = 65535

  Head

  Set the number of read/write heads

  - Min = 0, Max = 255

  Precomp

  Warning: Setting a value of 65535 means no hard disk.

  - Min = 0, Max =65535

  Landing Zone

  Set the Landing Zone size.

  - Min = 0, Max = 65535

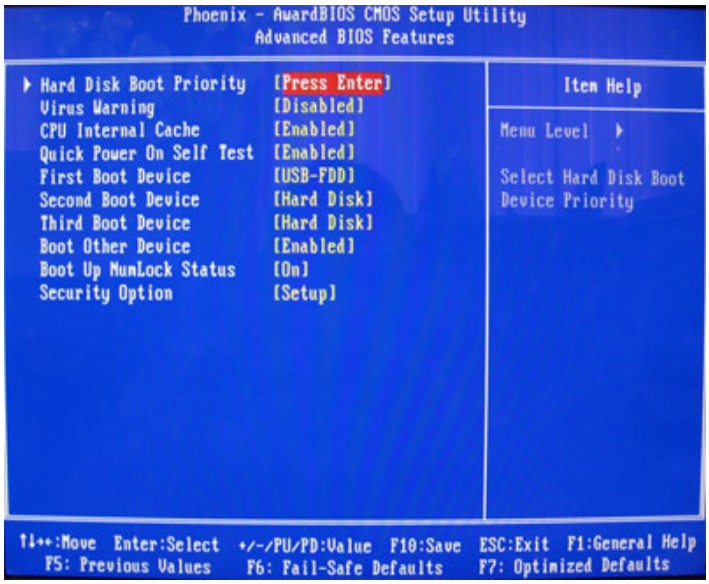
Sector

Number of sector per-track.

- Min = 0, Max = 255

3.4 Advanced BIOS Features

This section allows you to configure your system for basic operation. You have the opportunity to select the system's default speed, boot-up sequence, keyboard operation, shadowing and security.


Phoenix - AwardBIOS CMOS Setup Utility
Advanced BIOS Features
Hard Disk Boot Priority [Press Enter]
Virus Warning [Disabled]
CPU Internal Cache [Enabled]
Quick Power On Self Test [Enabled]
First Boot Device [USB-FDD]
Second Boot Device [Hard Disk]
Third Boot Device [Hard Disk]
Boot Other Device [Enabled]
Boot Up NumLock Status [On]
Security Option [Setup]
Item Help
Menu Level
Select Hard Disk Boot Device Priority
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5: Previous Values F6: Fail-Safe Defaults F7: Optimized Defaults

- **Removable Device Priority**

  You can choose the priority of your Removable Device

  - The choice: USB-FDD0, USB-ZIP0, USB-ZIP1, USB-ZIP1, Floppy Disks, ZIP100, Floppy Disks
  - Default: USB-FDD0

- **Hard-Disk Boot Priority**

  You can choose the priority of your Hard Disk

  - The choice: Pri.Master, Pri.Slave, USBHDD0, USBHDD1, USBHDD2, Bootable Add-in Cards
  - Default: Pri.Master

- **CD-ROM Boot Priority**

  You can choose the priority of your Removable Device

  - The choice: Pri.Master, Sec.Slave, USB-CDROM1,USB-CDROM0, Sec.Master, Pri.Slave
  - Default: Pri.Master

- **Virus Warning**

  Allow you to choose the Virus Warning feature for IDE Hard Disk boot sector protection. Enable this item to prevent someone from writing data into this area.

- The choice: Enabled or Disabled
- Default: Disabled

➢ **CPU Internal Cache**

All processors that can be installed in this motherboard use internal level of L1 cache memory to improve performance. Leave this item at the default value for better performance.

- The choice: Enabled or Disabled
- Default: Enabled

➢ **Quick Power On Self Test**

Enable this item to shorten the power on testing (POST) and have your system start up faster. You might like to this item after you are confident that your system hardware is operating smoothly.

- The choice: Enabled or Disabled
- Default: Enabled

➢ **First/Second/Third Boot Device**

Use these items to select the priority and order of the devices that your system searches for an operating system at start-up time.

- The choice: Removable, Hard Disk, CDROM, LAN, Disabled
- Default: Hard Disk (First) / CDROM (Second) / Removable (Third)

➢ **Boot Other Device**

If you enable this item, the system searches all other possible locations for and operating system if it fails to find one in the devices specified under the First, Second and the Third boot devices.

- The choice: Enabled or Disabled
- Default: Enabled

➢ **Boot Up NumLock Status**

This item defines if the keyboard NumLock key is active when your system is started.

- The choice: On or Off
- Default: On

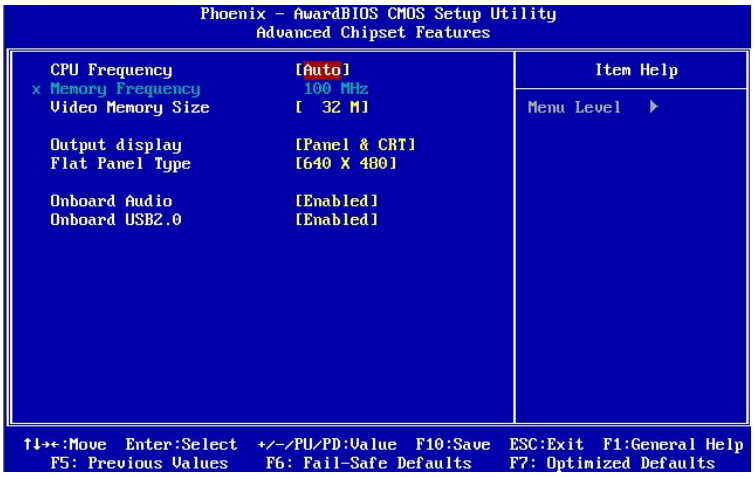
➢ **Security Option**

If you have installed password protection, this item defines if the password is required at system start up, or if it is only required with a user tries to enter the Setup Utility.

- The choice: Setup or System
- Default: Setup

3.5 Advanced Chipset Features

These items define critical timing parameters of the mainboard. You should leave the items at their default values unless you are very familiar with the technical, specifications of your system hardware. If you change the values incorrectly, you may introduce fatal error or recurring instability into your system.


Phoenix - AwardBIOS CMOS Setup Utility
Advanced Chipset Features
CPU Frequency [Auto]
x Memory Frequency 100 MHz
Video Memory Size [32 M]
Output display [Panel & CRT]
Flat Panel Type [640 X 480]
Onboard Audio [Enabled]
Onboard USB2.0 [Enabled]
Item Help
Menu Level
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5: Previous Values F6: Fail-Safe Defaults F7: Optimized Defaults

- **CPU Frequency**

  This item allows you to select CPU and Memory Frequency. If this item has been set as Auto, the Memory Frequency will be set to sequent with CPU Frequency. When this item is not selected as Auto, Memory Frequency will be able for selection.

  - The CPU Frequency choice: Auto, 200MHz, 333MHz, 400MHz, 433MHz, or 500MHz.
  - Default: Auto

- **Video Memory Size**

  This item allows you select Video Memory Size

  - The choice: 32M, 64M, 128M, or 254M
  - Default: 32M

- **Output Display**

  This item allows you select Output Display

  - The choice: Flat Panel, CRT, or Panel & CRT
  - Default: Panel & CRT

- **Flat Panel Type**

  This item allows you select the resolution of the Display.

  - Resolution:
    640 x 480
    800 x 600
    1024 x 768
    1280 x 1024
  - Default: 640x480

- **Onboard Audio**

  This item allows you to control the Onboard Audio

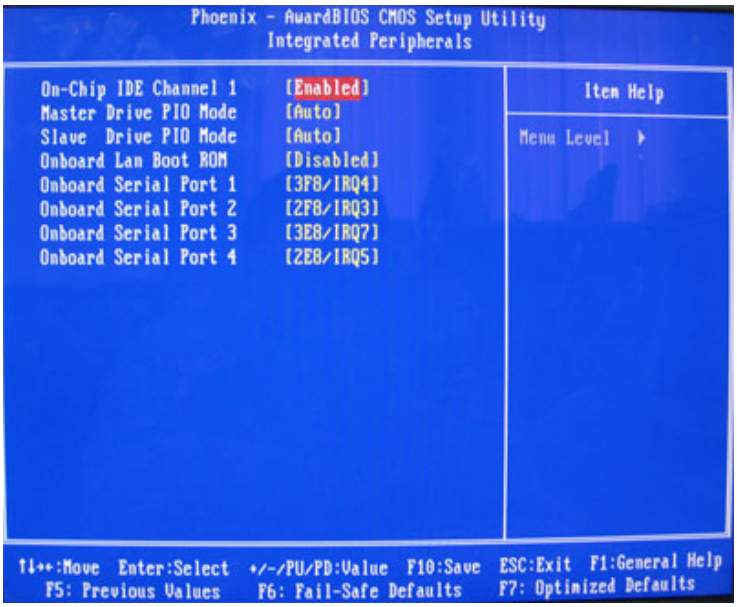
  - The choice: Enabled or Disabled
  - Default: Enabled

- **Onboard USB2.0**

  This item allows you to control the Onboard USB

  - The choice: Enabled or Disabled
  - Default: Enabled

3.6 Integrated Peripherals


Phoenix - AwardBIOS CMOS Setup Utility
Integrated Peripherals
On-Chip IDE Channel 1 [Enabled]
Master Drive PIO Mode [Auto]
Slave Drive PIO Mode [Auto]
Onboard Lan Boot ROM [Disabled]
Onboard Serial Port 1 [3F8/IRQ4]
Onboard Serial Port 2 [2F8/IRQ3]
Onboard Serial Port 3 [3E8/IRQ7]
Onboard Serial Port 4 [2E8/IRQ5]
Item Help
Menu Level ▶
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5: Previous Values F6: Fail-Safe Defaults F7: Optimized Defaults

- **On-Chip IDE Channel 1**

  The chipset contains a PCI IDE interface with support IDE channel. By default to activate the primary/secondary IDE interface.

- **Master/Salve Drive PIO Mode**

  The four IDE PIO (Programmed Input/Output) fields let you set a PIO mode (0-4) for each of the four IDE devices that the onboard IDE interface supports. Mode 0 through 4 provides successively increased performance. In Auto mode, the system automatically determines the best mode for each device.

  - The choice: Auto, Mode 0, Mode 1, Mode 2, Mode 3, or Mode 4
  - Default: Auto

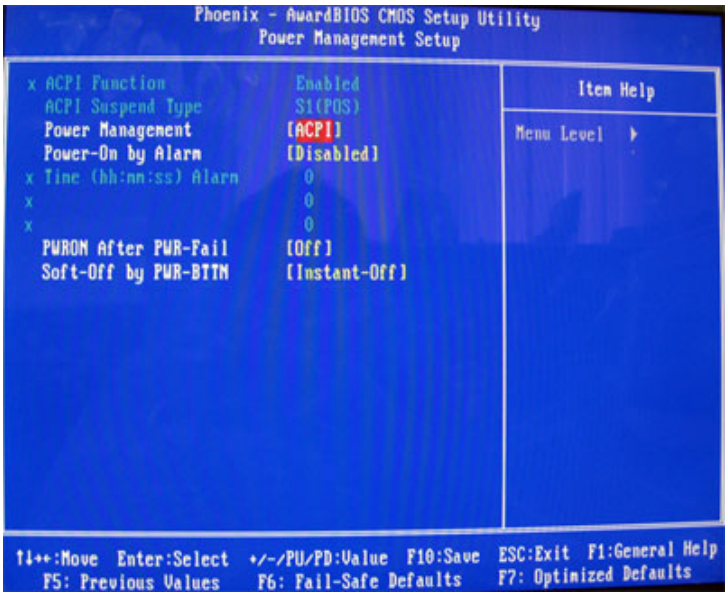
- **Onboard Serial Port 1/2/3/4**

  This option is used to assign the I/O address and Interrupt Request (IRQ) for the onboard Serial Port.

  - The choice: Disabled, 3F8/IRQ4, 2F8/IRQ3, 3E8/IRQ7, 2E8/IRQ5
  - Default: 3F8/IRQ4 (Port1), 2F8/IRQ3 (Port2), 3E8/IRQ7 (Port3), 2E8/IRQ5 (Port4)

3.7 Power Management Setup

The Power Management Setup allows you to configure your system to most effectively saving energy while operating in a manner consistent with your own style of computer use


Phoenix - AwardBIOS CMOS Setup Utility
Power Management Setup
x ACPI Function Enabled
ACPI Suspend Type S1(POS)
Power Management [ACPI]
Power-On by Alarm [Disabled]
x Time (hh:mm:ss) Alarm 0
x 0
x 0
PWRON After PWR-Fail [Off]
Soft-Off by PWR-BTTN [Instant-Off]
Item Help
Menu Level
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5: Previous Values F6: Fail-Safe Defaults F7: Optimized Defaults

- **Power Management**

  This item defines the ACPI(Advanced Configuration and Power Management) feature that makes hardware status information available to the operating system, enable a PC to turn its peripherals on or off for improving the power management, and allows a PC turned on or off by external devices, so that a mouse or keyboard can wake up it.

  - The choice: ACPI
  - Default: ACPI

- **Soft-Off by PWR-BTTN**

  Under ACPI you can create a software power down. In a software power down, the system can be resumed by Wake-Up Alarm. This item lets you install a software power down that is controlled by the power button on your system. If the item is set to Instant-Off, then the power button causes a software power down. If the item is set to Delay 4 seconds, then you have to hold the power button down for 4 seconds to cause a software power down.

  - The choice: Delay 4 Sec. or Instant-Off
  - Default: Instant-Off

➢ **Power-On by Alarm**

When set to ‘Enabled’, the following three fields become available and you can set the date, hour, and minute to turn on your system.

- The choice: Enabled or Disabled
- Default: Disabled

Time (hh : mm : ss) of Alarm

This item selects the alarm Time.

[hh]: key in a DEC number; Min = 0, Max = 23.

[mm] : key in a DEC number; Min = 0, Max = 59.

[ss]: key in a DEC number; Min = 0, Max = 59.

➢ **PWRON After PWR-fail**

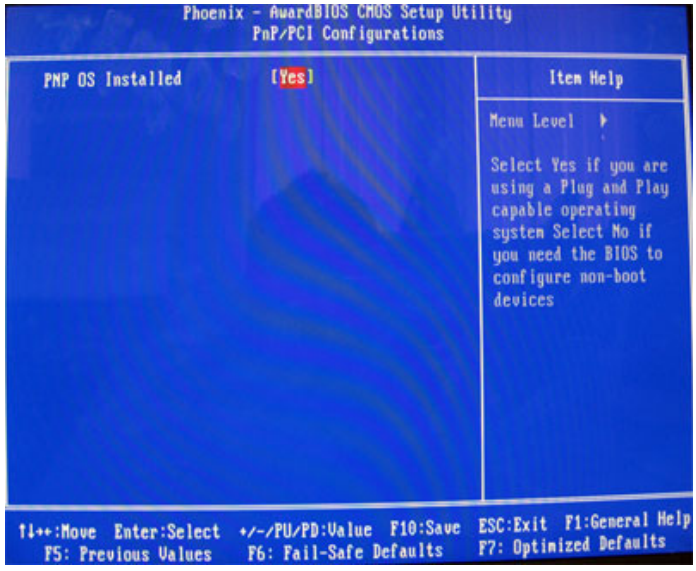
Select the item “On”, the system can be reboot automatically when power fail. Select “Former-Sts” will follow former setting. Select “Off”, you need to reboot the system manually.

- The choice: Off, On, Former-Sts
- Default: Off

3.8 PnP/PCI Configuration Setup

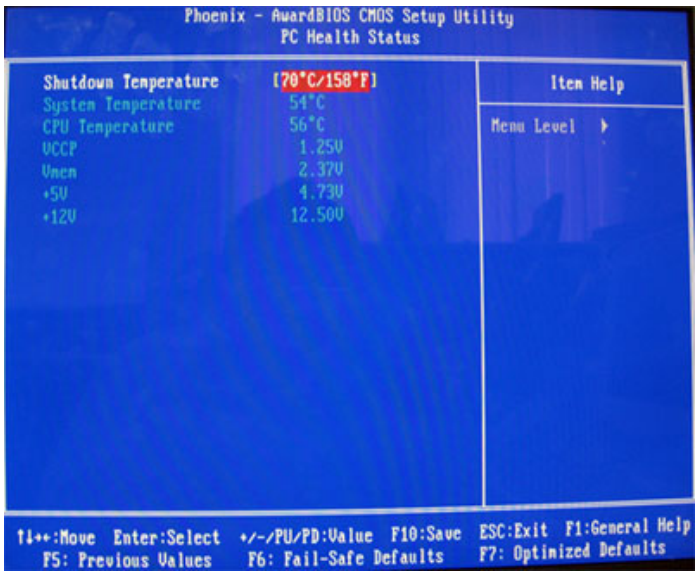
➢ **PNP OS Installed**

Select ‘Yes’ if you are using a Plug and Play capable operating system. Select ‘No’ if you need the BIOS to configure non-boot devices.


Phoenix - AwardBIOS CMOS Setup Utility
PnP/PCI Configurations
PNP OS Installed
[Yes]
Item Help
Menu Level
Select Yes if you are using a Plug and Play capable operating system Select No if you need the BIOS to configure non-boot devices
↑↓→←:Move Enter:Select +/-/PU/PD:Value F10:Save ESC:Exit F1:General Help
F5: Previous Values F6: Fail-Safe Defaults F7: Optimized Defaults

3.9 PC Health Status

This section shows the status of Temperature,& System Voltage status



- **Shutdown Temperature**

  This item allows you to select the shutdown temperature. The system will automatically shutdown while the CPU temperature has reach to the value you have set.

  - The choice: 60° C/140° F, 65° C/149° F, 70° C/158° F, or Disabled
  - Default: 60° C/140° F

  The following items provide you with information about the system's current operating status. You can not make changes to one of them.

  - System Temperature
  - CPU temperature
  - VCCP
  - Vmem
  - +5V
  - +12V

  `

3.10 Load Fail-Safe Defaults

When you press <Enter> on this item, you will get confirmation dialog box with a message similar to:

- Load Fail-Safe Defaults (Y/N)? N
- Pressing 'Y' loads the BIOS default values for the most stable, minimal performance system operations.

3.11 Load Optimized Defaults

When you press <Enter> on this item, you will get confirmation dialog box with a message similar to:

- Load Optimized Defaults (Y/N)? N
- Pressing 'Y' loads the default values that are factory-set for optimal performance system operation.

3.12 Supervisor / User Password Setting

Steps to set supervisor/user password are described as follows:

- **New password setting:**
  1. While pressing <Enter> to set a password, a dialog box appears to ask you enter a password.
  2. Key in a new password. The password can not exceed eight characters.

     Please Enter Your Password
  3. System will request you to confirm the new password again.

     Please Confirm Your Password
  4. When completed, new code takes effect.

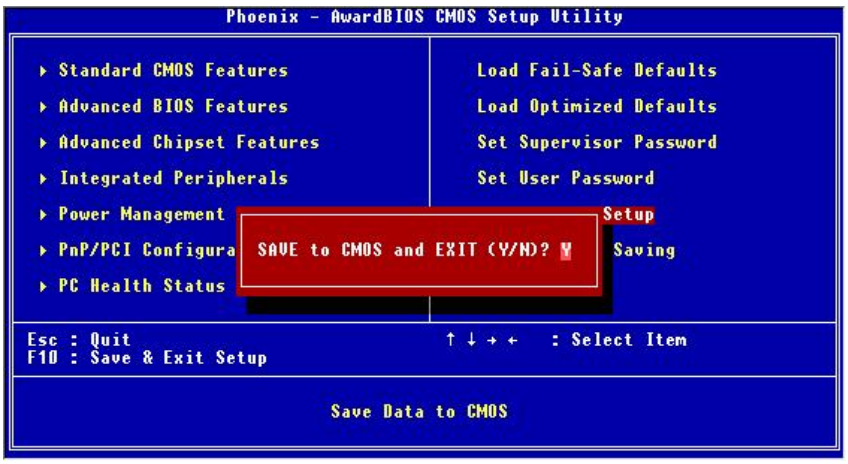
- **No Password Setting:**

  If you wants to disable the password, just <Enter> as a password input is requested.

- **If you forget password:**

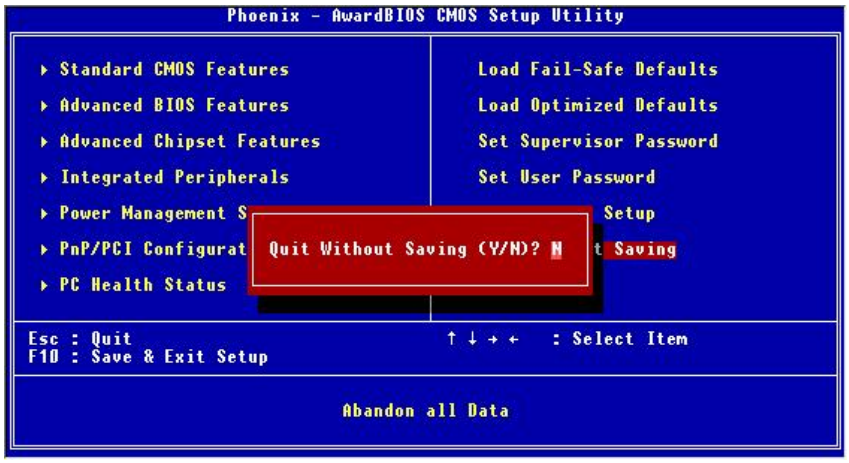
  If you forget the password, the only way to access the system is to clear the CMOS memory. You may remove the battery from motherboard and put it back to clear the setting.

3.13 Save & Exit Setup



- **Pressing <Enter> on this item asks for confirmation:**
  - Save to CMOS and Exit (Y/N)? Y
  - Press 'Y' stores the selections made in the menus of CMOS – a special section of memory that recorded in after you turn your system off. The next time you turn on your computer, the BIOS configures your system according to the Setup selections recorded in he CMOS memory of the chipset. After saving the values the system is restarted again.

3.14 Exit Without Saving



- **Press <Enter> on this item asks for confirmation:**
  - Quit Without Saving (Y/N)? Y
  - This allows you to exit from Setup without storing in CMOS any change. The previous selections remain in effect. This exits from Setup utility and restarts your computer.

CHAPTER 4

SATA Driver Installation

This chapter gives the information about how to install SATA drivers.

Chapter 4 SATA Driver Installation

SATA interface is a new, fast, disk drive standard, but Windows doesn't come with device drivers. Without the proper drivers installed, your system can not recognize a SATA drive.

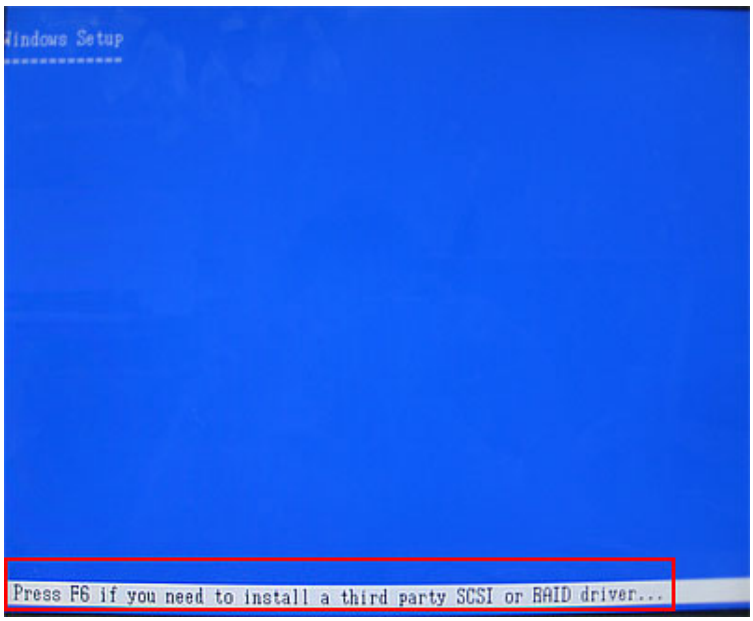
4.1 Get the right Drivers

The first step is to get the right drivers. SATA drivers generally place on your driver CD that comes with your A831 board. However you also can check the manufacturer's web site and download the latest versions of the drivers.

4.2 Installing SATA Drivers

Windows expects you to install the SATA drivers from a floppy. Therefore, load the SATA drivers onto a floppy disk and be connected with an USB external floppy disk driver. If this is a new system, you will be installing a fresh copy of Windows XP.

During the initial portion of the Windows Set-Up, there will be a point where a message flashes on the screen telling you to press F6. The message scrolls past quickly, so be alert for it. Pressing F6 will give you the opportunity to install your new drivers.



CHAPTER 5

Chipset Driver Installation

This chapter offers information on the chipset software installation utility.

Sections include:

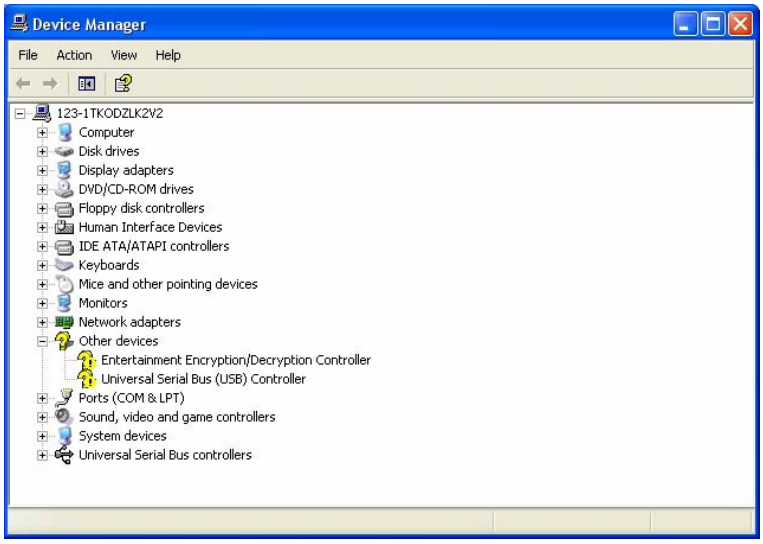
- Installation of Chipset Utility
- Further Information

Chapter 5 Chipset Driver Installation

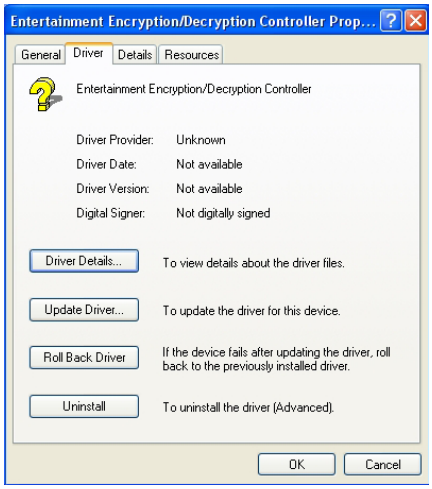
5.1 Standard CMOS Features

The Motherboard is equipped with AMD CS5536 Companion Device. The AMD Chipset Drivers should be installed first before the software drivers to enable Plug & Play INF support for AMD chipset components. Follow the instructions below to complete the installation.

Step.1. After finishing the O.S. installation, insert the driver CD. Open the Device Manager, and select Entertainment Encryption/Decryption Controller. Click on right button and select properties.



Setp.2. Go to Driver page and choose Update Driver.

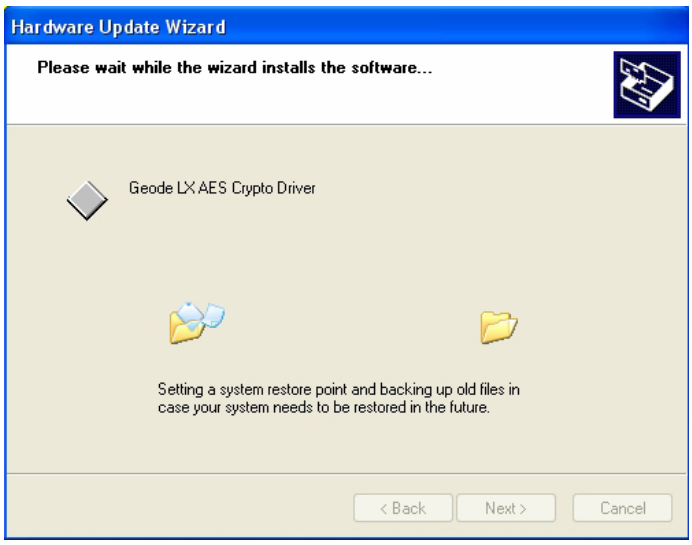

Entertainment Encryption/Decryption Controller Prop...
General Driver Details Resources
Entertainment Encryption/Decryption Controller
Driver Provider: Unknown
Driver Date: Not available
Driver Version: Not available
Digital Signer: Not digitally signed
Driver Details...
To view details about the driver files.
Update Driver...
To update the driver for this device.
Roll Back Driver
If the device fails after updating the driver, roll back to the previously installed driver.
Uninstall
To uninstall the driver (Advanced).
OK
Cancel

Setp.3. Click Install from a list or specific location, and click on next.

Hardware Update Wizard
Welcome to the Hardware Update Wizard
This wizard helps you install software for:
Entertainment Encryption/Decryption Controller
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

Step.4. Click on browse and select target folder, and click to next.

Step.5. Click Finish to finish the driver installation.


Hardware Update Wizard
Please wait while the wizard installs the software...
Geode LX AES Crypto Driver
Setting a system restore point and backing up old files in case your system needs to be restored in the future.
< Back
Next >
Cancel

5.2 Further Information

Winmate web site: http://www.winmate.com.tw

CHAPTER 6

Ethernet Driver Installation

This chapter offers information on the Ethernet. Sections include:

- Introduction
- Installation of Ethernet Driver
- Further Information

Chapter 6 Ethernet Driver Installation

6.1 Introduction

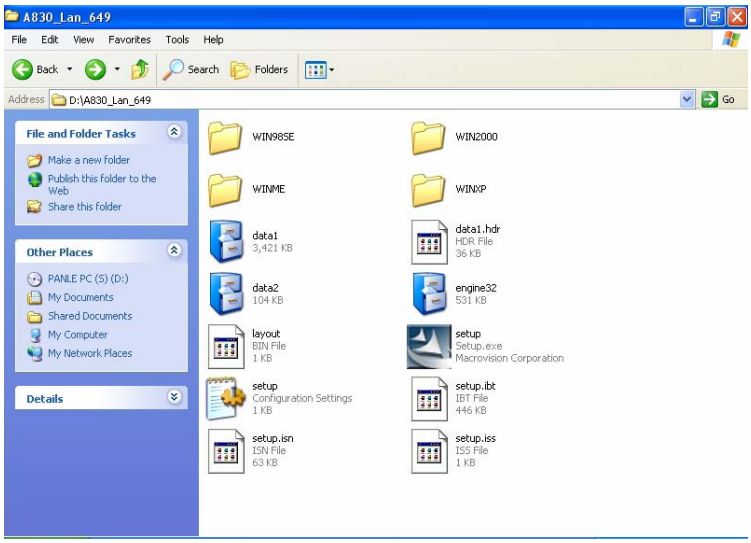
The A831 Motherboard is equipped with the Realtek RTL8100CL-LF LOM Ethernet controller combines a triple-speed IEEE 802.3 compliant Media Access Controller (MAC) with a triple-speed Ethernet transceiver, 32-bit PCI bus controller, and embedded memory. With state-of-the-art DSP technology and mixed-mode signal technology, it offers high-speed transmission over CAT 5 UTP or CAT 3 UTP (10Mbps only) cable. Functions such as Crossover Detection & Auto-Correction, polarity correction, adaptive equalization, cross-talk cancellation, echo cancellation, timing recovery, and error correction are implemented to provide robust transmission and reception capability at high speeds.

The Ethernet port provides an On-board standard RJ-45 connector. The device supports the PCI 10/100Mbps Ethernet interface supports for host communications with power management, and is compliant with the IEEE 802.3 specification for 10/100Mbps.

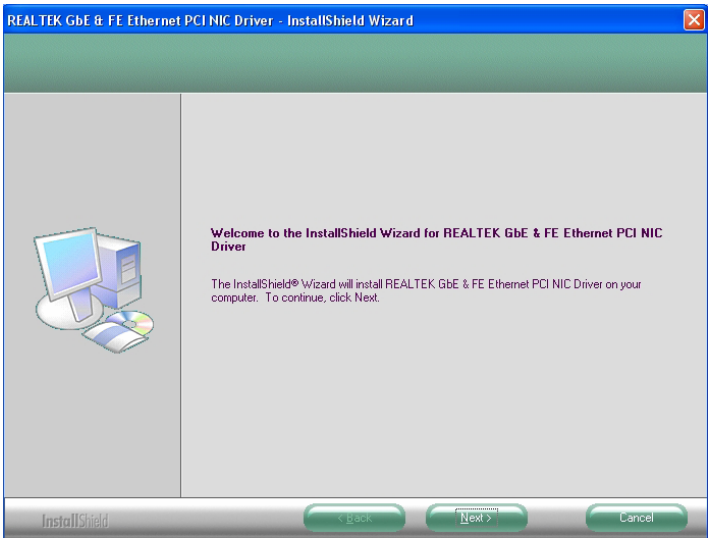
6.2 Installation of Ethernet Driver

The Users must make sure which operating system you are using in the A831 Motherboard before installing the Ethernet drivers. Follow the steps below to complete the installation of the Realtek RTL8100CL-LF LAN drivers. You will quickly complete the installation.

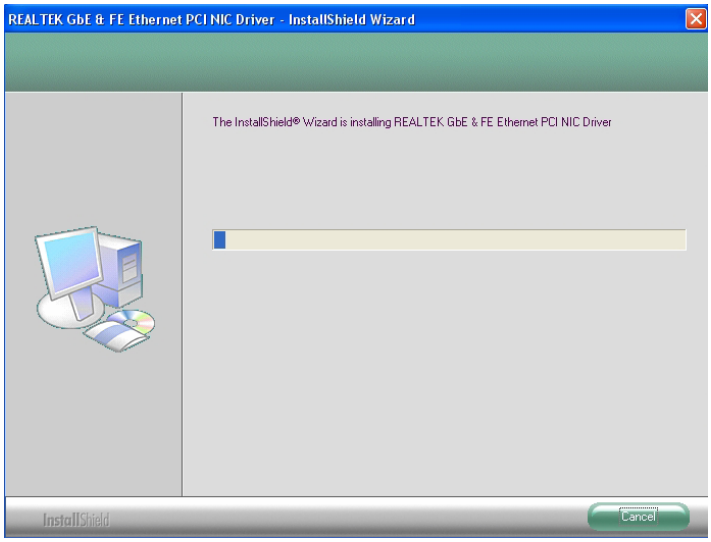
Setp.1. Insert the CD that comes with the motherboard. Open the file document " A831_LAN_649" and click on "Setup.exe" to execute the setup.



Setp.2. Click on "Next" to install driver.


REALTEK GbE & FE Ethernet PCI NIC Driver - InstallShield Wizard
Welcome to the InstallShield Wizard for REALTEK GbE & FE Ethernet PCI NIC Driver
The InstallShield® Wizard will install REALTEK GbE & FE Ethernet PCI NIC Driver on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel

Setp.3. Click “Finish” and restart the computer for new settings to take effect.


REALTEK GbE & FE Ethernet PCI NIC Driver - InstallShield Wizard
The InstallShield® Wizard is installing REALTEK GbE & FE Ethernet PCI NIC Driver
InstallShield
Cancel

6.3 Further Information

The Realtek web site: http://www.realtek.com.tw

Winmate web site: http://www.winmate.com.tw

CHAPTER 7

VGA Driver Installation

This chapter offers information on the VGA.
Sections include:

- Introduction
- Installation of VGA
- Further Information

Chapter 7 VGA Driver Installation

7.1 Introduction

The A831 Motherboard offers an on-board PCI flat panel/VGA interface. The specifications and features are described as follows:

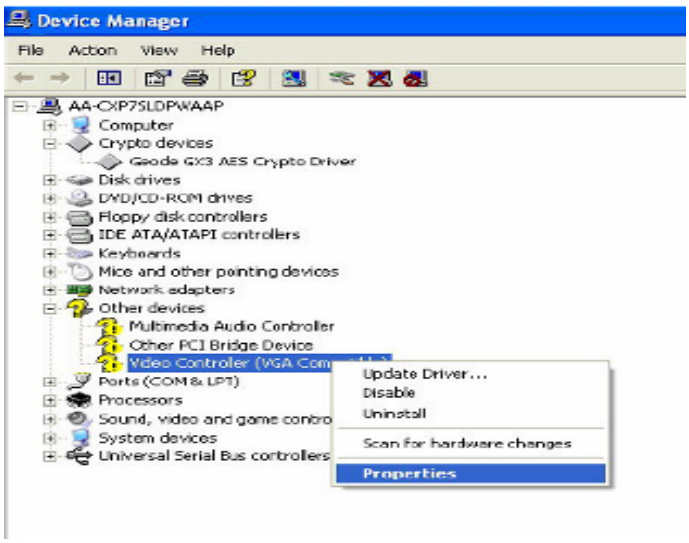
The PPC supports CRT and TFT LCD displays. In addition, it also supports CRT and flat panel display mode simultaneously.

The Motherboard can be set in one of three configurations: on a CRT, on a flat panel display, or on both simultaneously. The system is initially set to simultaneous display mode. The Panel resolution supports up to 1280 x 1024 @18bpp or 24bpp.

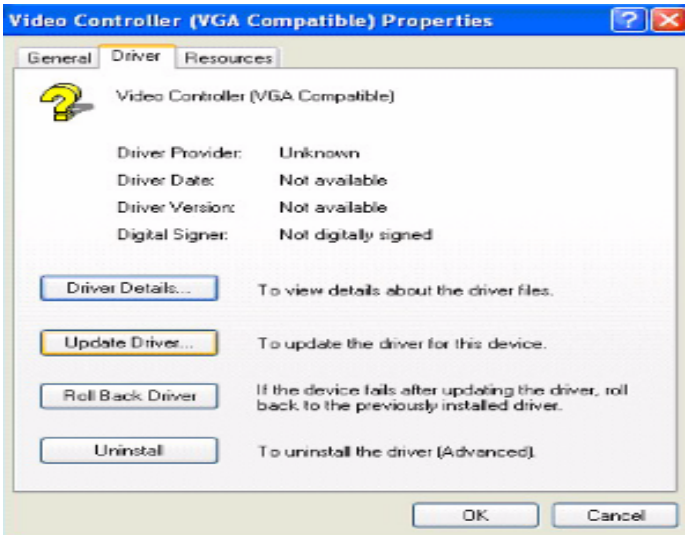
7.2 Installation of VGA Driver

To install the VGA drivers, follow the steps below to proceed with the installation.

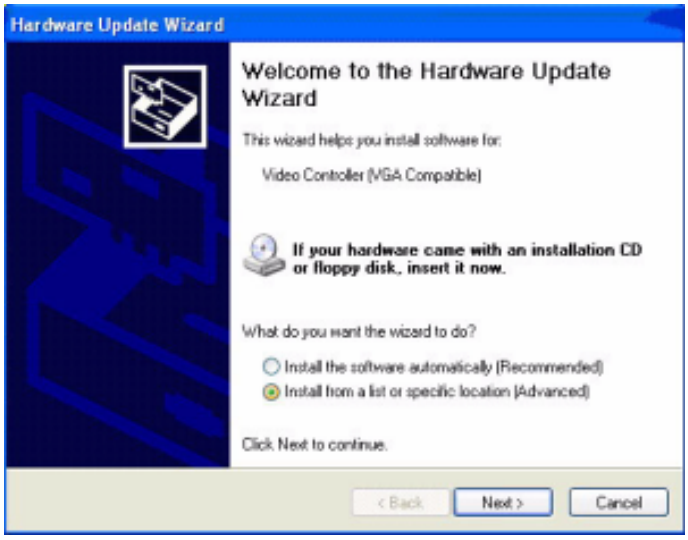
Step.1. Open the device manager, choose **"VGA Controller"** and click on **"Properties"**.



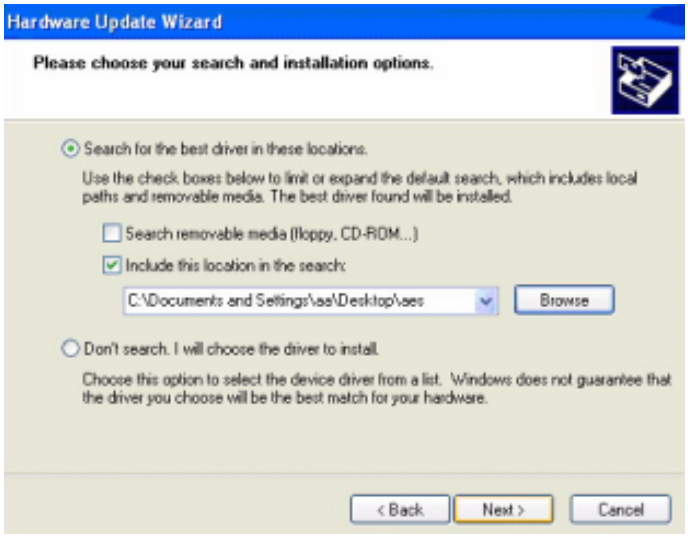
Step.2. Go to Driver page and choose **“Update Driver”**.



Step.3. Click Install from a list or specific location, and click on **“Next”**.


Hardware Update Wizard
Welcome to the Hardware Update Wizard
This wizard helps you install software for:
Video Controller (VGA Compatible)
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

Step.4. Click on browse and select target folder, and click to ”Next”.


Hardware Update Wizard
Please choose your search and installation options.
Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM...)
Include this location in the search:
C:\Documents and Settings\aa\Desktop\aes
Browse
Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< Back
Next >
Cancel

Step.5. Click on **"Continue Anyway"** to go on.

Hardware Installation
The software you are installing for this hardware:
Advanced Micro Devices Win 2K/XP Graphics Driver
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

Step.6. Click **"Finish"** to finish the driver installation.

Found New Hardware Wizard
Completing the Found New Hardware Wizard
The wizard has finished installing the software for:
Advanced Micro Devices Win 2K/XP Graphics Driver
Click Finish to close the wizard.
< Back
Finish
Cancel

7.3 Further information

Winmate web site: http://www.winmate.com.tw

CHAPTER 8

AUDIO Driver Installation

This chapter offers information on the Audio.
Sections include:

- Introduction
- Installation of AUDIO
- Further Information

Chapter 8 AUDIO Driver Installation

8.1 Introduction

The Motherboard is equipped with the ALC203 is a 20-bit DAC and 18-bit ADC full-duplex AC'97 2.3 compatible stereo audio CODEC designed for PC multimedia systems, including host/soft audio, and AMR/CNR based designs.

The ALC203 incorporates proprietary converter technology to achieve a high SNR (greater than 100 dB), sensing logics for device reporting, and a Universal Audio Jack® for improved user convenience. The ALC203 AC'97 CODEC supports multiple CODEC extensions with independent variable sampling rates and built-in 3D effects. The ALC203 CODEC provides two pairs of stereo outputs with independent volume controls, a mono output, multiple stereo and mono inputs, along with flexible mixing, gain, and mute functions to provide a complete integrated audio solution for PCs.

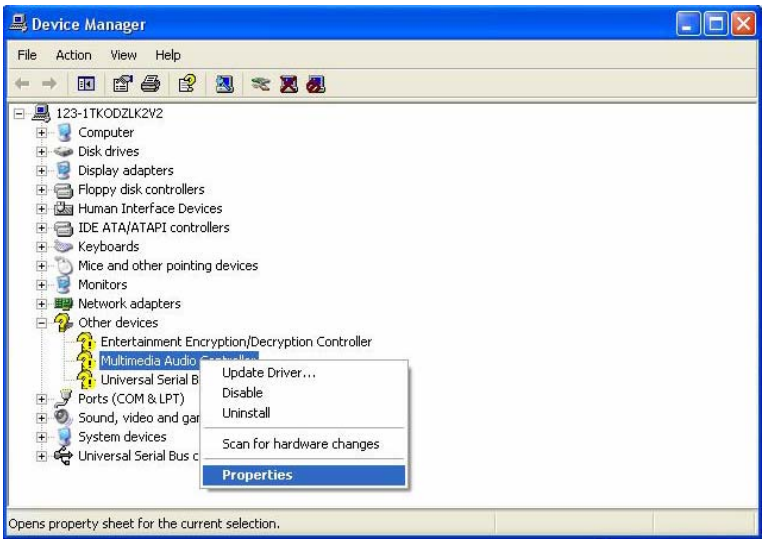
The circuitry of the ALC203 CODEC operates from a 3.3V digital and 3.3V/5V analog power supply with EAPD (External Amplifier Power Down) control for use in notebook and PC applications. The ALC203 integrates a 50mW/20Ohm headset audio amplifier into the CODEC, saving BOM costs. The ALC203 also supports the S/PDIF out function (complies with AC'97 2.3) that offers easy connection of PCs to consumer electronic products, such as AC3 decoders/speakers and mini disk devices.

8.2 Installation of Audio Driver

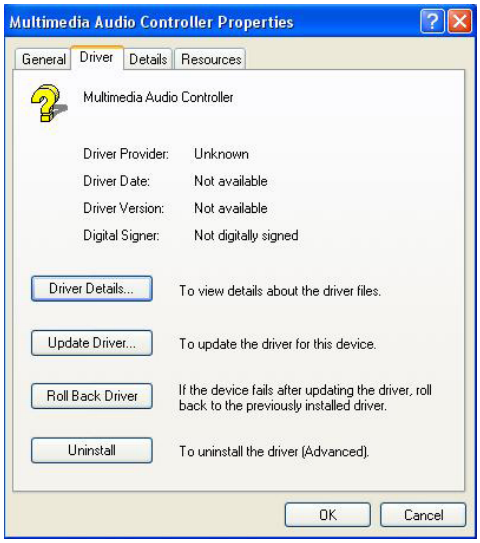
The users must make sure which operating system you are using in the Motherboard before installing the Audio drivers. Follow the steps below to complete the installation of the Realtek ALC203 AC97 Audio drivers. You will quickly complete the installation.

Follow the steps below to install the Realtek AC97 Codec Audio Drivers.

Step.1 Open the device manager, choose **"Audio Controller"** and click on **"Properties"**.



Step.2 Go to Driver page and choose **"Update Driver"**.

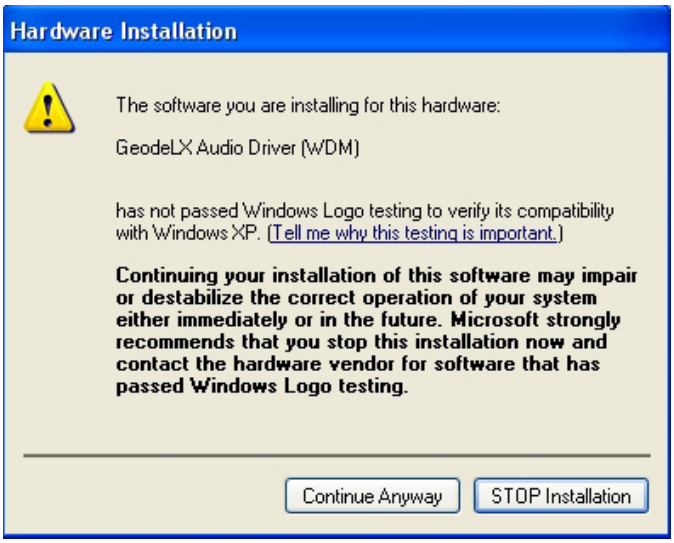


Step.3 Click Install from a list or specific location, and click on **"Next"**.

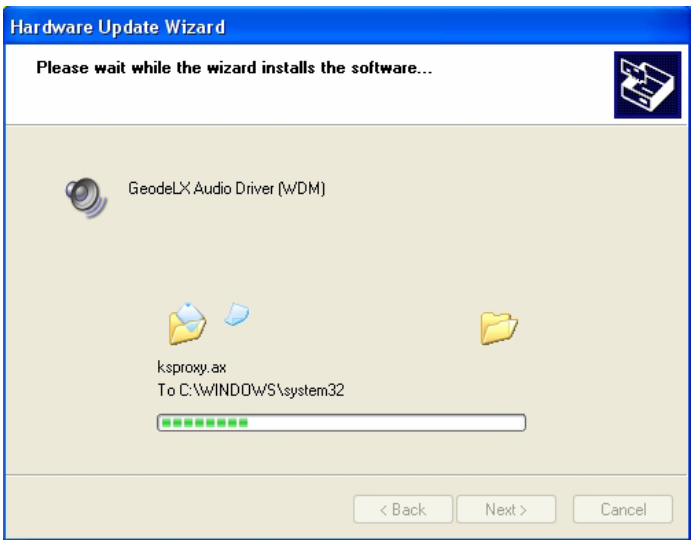
Hardware Update Wizard
Welcome to the Hardware Update Wizard
This wizard helps you install software for:
Multimedia Audio Controller
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

Step.4 Click on browse and select target folder, and click to **"Next"**.

Step.5 Click on **"Continue Anyway"** to go on.


Hardware Installation
The software you are installing for this hardware:
GeodeLX Audio Driver (WDM)
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

Step.6 Click **“Finish”** to finish the driver installation.



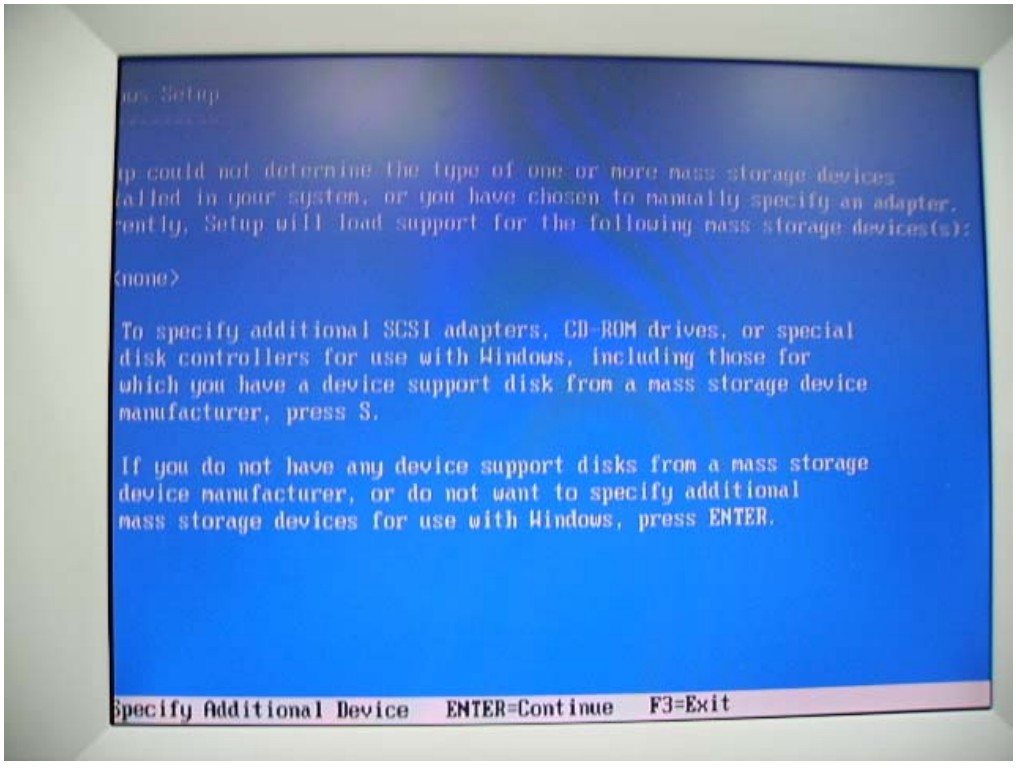
8.3 Further Information

Winmate web site: http://www.winmate.com.tw

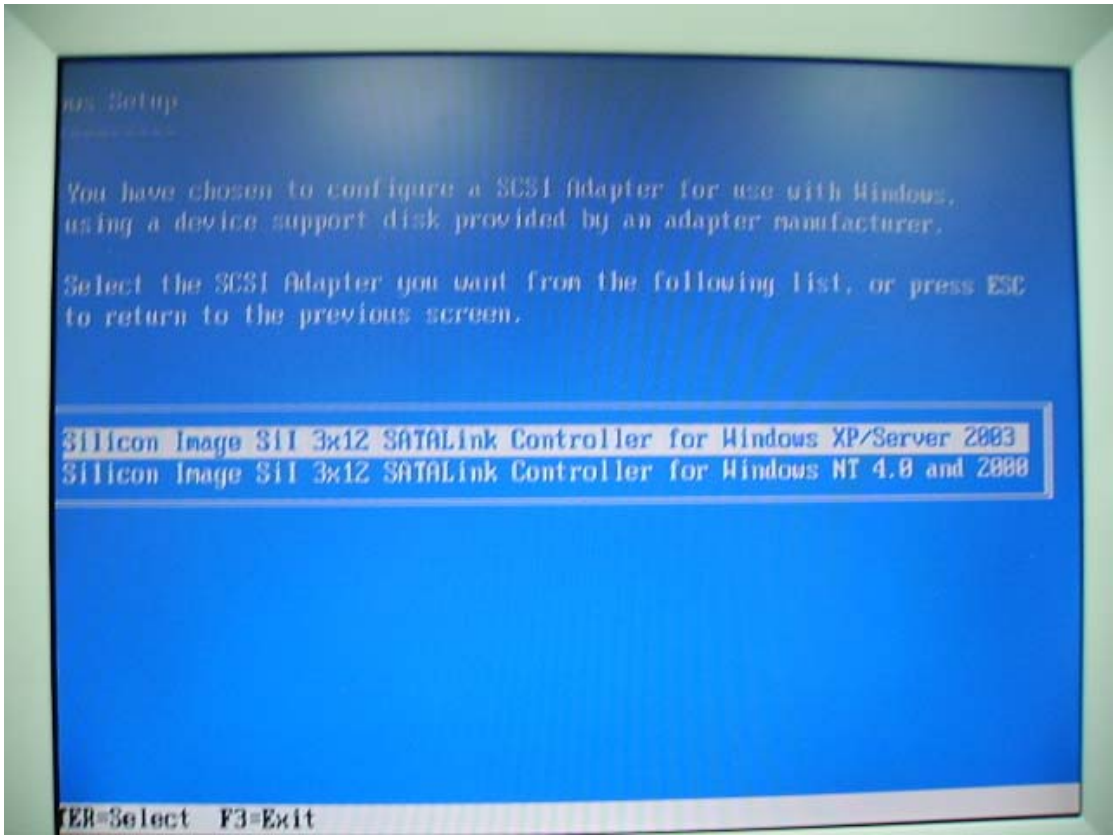
Notice:

1. You have to press “F6” button when install Windows system in SATA-HDD.

2. You have to copy all file from SATA Driver folder from SATA Driver first, and put floppy into 3.5-inch disk driver then press “s” bottom.


Setup could not determine the type of one or more mass storage devices installed in your system, or you have chosen to manually specify an adapter. Currently, Setup will load support for the following mass storage devices(s):
<none>
To specify additional SCSI adapters, CD-ROM drives, or special disk controllers for use with Windows, including those for which you have a device support disk from a mass storage device manufacturer, press S.
If you do not have any device support disks from a mass storage device manufacturer, or do not want to specify additional mass storage devices for use with Windows, press ENTER.
Specify Additional Device ENTER=Continue F3=Exit

3. Finally, select the OS you need and press “Enter”.


You have chosen to configure a SCSI Adapter for use with Windows,
using a device support disk provided by an adapter manufacturer.
Select the SCSI Adapter you want from the following list, or press ESC
to return to the previous screen.
Silicon Image SiI 3x12 SATALink Controller for Windows XP/Server 2003
Silicon Image SiI 3x12 SATALink Controller for Windows NT 4.0 and 2000
F3=Exit